

1.5A Variable/Fixed Output LDO Regulators



BAxxJC5 Series(Fixed) BA00JC5WT(Variable)

General Description

The BAxxJC5 are low-saturation regulators with an output current of 1.5A and a voltage accuracy of $\pm 1\%$. A broad output voltage range is offered, from 1.5V to 12V, and built-in overcurrent protection and thermal shutdown (TSD) circuits prevent damage due to short-circuiting and overloading, respectively.

Features

- Output voltage accuracy: $\pm 1\%$
- Broad output voltage range available: 1.5V -12V (BAxxJC5 series)
- Low saturation-voltage type with PNP output
- Built-in overcurrent protection circuit
- Built-in thermal shutdown circuit
- Integrated shutdown switch (BA00JC5WT)

Key Specifications

- Input Power Supply Voltage: 16.0V(Max.)
- Output voltage type: BAxxJC5 Series Fixed
BA00JC5WT Variable
- Output current: 1.5A(Max.)
- Shutdown current: (BA00JC5WT) 0 μ A(Typ.)
- Operating temperature range: -40°C to +105°C

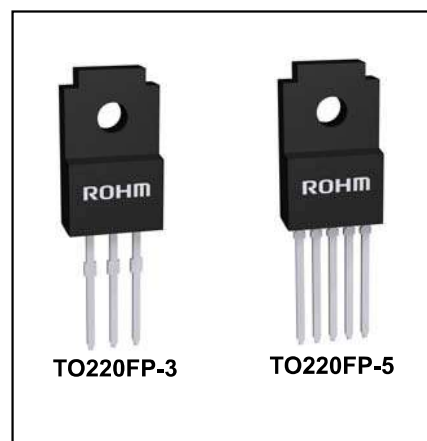
Applications

All electronic devices that use microcontrollers and logic circuits

Packages

TO220FP-3
TO220FP-5

W (Typ.) x D (Typ.) x H (Max.)
10.00mm x 30.50mm x 4.60mm
10.00mm x 30.50mm x 4.60mm



Lineup Matrix

Part Number	Output Voltage (V)												Package
	1.5	1.8	2.5	3.0	3.3	5.0	6.0	6.3	8.0	9.0	12.0	Variable	
BAxxJC5T	○	○	○	○	○	○	○	○	○	○	○	-	TO220FP-3
BAxxJC5WT	-	-	-	-	-	-	-	-	-	-	-	○	TO220FP-5

Ordering Information

B A x x J C 5 x x

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Part number	Output voltage	Current capacity	Shutdown switch	Package
00:Variable	00:Variable	JC5:1.5A	W : Include	T : TO220FP-3
Other:Fixed	Other:Fixed		None:without	TO220FP-5

Packaging and forming specification
None:Tube Contener

●Lineup

Maximum output current (Max.)	Shutdown Switch	Package		Output voltage(Typ.)	Orderable Part Number
1.5A	No Switch	TO220FP-3	Tube of 500	1.5 V	BA15JC5T
				1.8 V	BA18JC5T
				2.5 V	BA25JC5T
				3.0 V	BA30JC5T
				3.3 V	BA33JC5T
				5.0 V	BA50JC5T
				6.0 V	BA60JC5T
				6.3 V	BA63JC5T
				8.0 V	BA80JC5T
				9.0 V	BA90JC5T
				12.0 V	BAJ2JC5T
	With Switch	TO220FP-5		Variable	BA00JC5WT

●Block Diagrams / Standard Example Application Circuits / Pin Configurations / Pin Descriptions

[BAxxJC5T]

Fig.1

TOP VIEW

TO220FP-3

Pin No.	Pin name	Function
1	Vcc	Power supply voltage input
2	GND	GND
3	OUT	Voltage output

PIN	External capacit setting range
Vcc (1 Pin)	Approximately 0.33µF
OUT (3 Pin)	22µF to 1000µF

[BA00JC5WT]

Fig.2

TOP VIEW

TO220FP-5

Pin No.	Pin name	Function
1	CTL	Output voltage on/off control
2	Vcc	Power supply voltage input
3	GND	GND
4	OUT	Voltage output
5	C	ADJ pin

PIN	External capacit setting range
Vcc (2 Pin)	Approximately 0.33µF
OUT (4 Pin)	22µF to 1000µF